

# EUROPEAN PATENT OFFICE

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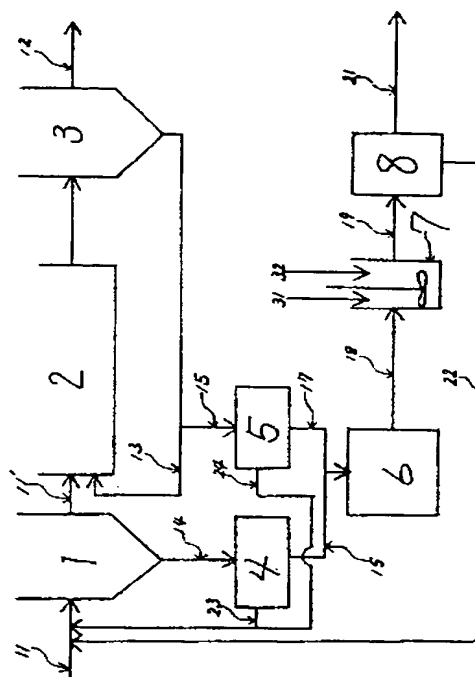
APPLICATION DATE : 30-08-88  
APPLICATION NUMBER : 63213808

APPLICANT : EBARA RES CO LTD;

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INT.CL. : C02F 11/14

TITLE : METHOD OF DEHYDRATING  
ORGANIC SLUDGE



**ABSTRACT :** PURPOSE: To decrease the content of P, N in a water treatment system and to enhance the dehydration efficiency of digested sludge by adding a polymer flocculating agent and easily soluble magnesium compd. to the formed and digested sludge, then dehydrating the digested sludge.

CONSTITUTION: Initial settling basin sludge 14 is thickened by an initially settled sludge thickener 4. The excess sludge 15 is discretely thickened by an excess sludge thickener 5 and is transferred to an anaerobic digestion tank 6. The digested sludge 18 subjected to the anaerobic digestion treatment is transferred to an intimate mixing tank 7 where the polymer flocculating agent 31 and the easily soluble magnesium compd. 32 are added to and mixed with the sludge. This sludge is transferred as chemically dosed sludge 19 to a dehydrator 8 and is subjected to a dehydration treatment. Order of addition of the polymer flocculating agent and the easily soluble magnesium compd. is easily settable. The addition of the easily soluble magnesium compd. simultaneously or before or after addition of the polymer flocculating agent is possible.

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